



0008364-1

Declaration

#7
9-26-03
Robert

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Barry Bronson

Art Unit: 2861

Examiner: Pham, Hai Chi

Serial Number: 10/044,676

Filed: January 11, 2002

Title: LABELING APPARATUS AND METHOD FOR DISK
STORAGE MEDIA

Date: September 15, 2003

DECLARATION UNDER 37 CFR §1.131

As the Inventor and Applicant of the above patent application, I hereby declare that:

The original Invention Disclosure demonstrating conception of the invention for the above referenced application was submitted by me and received by the Hewlett-Packard Legal Department before the October 29, 2001 filing date of the Honda reference, US Patent Application Publication No. 2002/0191517A1. Due diligence was taken by me to the filing of the Application. This Invention Disclosure, with dates redacted, is shown in Exhibit A.

All statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful statement may jeopardize the validity of the application or any patent issued therefrom.

Barry Bronson

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SEP 23 2003

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**INVENTION DISCLOSURE**

PAGE ONE OF

PDNO 10008364

DATE RCVD

ATTORNEY *Sum*

Instructions: The information contained in this document is **COMPANY CONFIDENTIAL** and may not be disclosed to others without prior authorization. Submit this disclosure to the HP Legal Department as soon as possible. No patent protection is possible until a patent application is authorized, prepared, and submitted to the Government.

Descriptive Title of Invention:

CD Writer Thermal Printing Labels

Name of Project:

None

Product Name or Number:

None

Was a description of the invention published, or are you planning to publish? If so, the date(s) and publication(s):

No

Was a product including the invention announced, offered for sale, sold, or is such activity proposed? If so, the date(s) and location(s):

No

Was the invention disclosed to anyone outside of HP, or will such disclosure occur? If so, the date(s) and name(s):

No

If any of the above situations will occur within 3 months, call your HP attorney or the Legal Department now at 1-898-4919 or 970-898-4919.

Was the invention described in a lab book or other record? If so, please identify (lab book #, etc.) No

Was the invention built or tested? If so, the date: No

Was this invention made under a government contract? If so, the agency and contract number: No

Description of Invention: Please preserve all records of the invention and attach additional pages for the following. Each additional page should be signed and dated by the inventor(s) and witness(es).

- A. Prior solutions and their disadvantages (if available, attach copies of product literature, technical articles, patents, etc.).
- B. Problems solved by the invention.
- C. Advantages of the invention over what has been done before.
- D. Description of the construction and operation of the invention (include appropriate schematic, block, & timing diagrams; drawings; samples; graphs; flowcharts; computer listings; test results; etc.)

Signature of inventor(s): Pursuant to my (our) employment agreement, I (we) submit this disclosure on this date: [REDACTED]

5103

Barry Bronson

857-3033

3U-14

HPL

Employee No.

Name

Signature

Telnet

Mailstop

Entity Acronym

**INVENTION DISCLOSURE**

COMPANY CONFIDENTIAL

PAGE OF

Signature of Witness(es): (Please try to obtain the signature of the person(s) to whom invention was first disclosed.)

The invention was first explained to, and understood by, me (us) on this date: [REDACTED]

Full Name:

Joshua Rosenberg

Signature

Date of Signature

[REDACTED]

Full Name:

Signature

Date of Signature

Inventor & Home Address Information: (If more than four inventors, include addl. information on a copy of this form & attach to this document)

Inventor's Full Name

Barry Bronson

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Saratoga

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Do you have a Residential P.O. Address? P.O. BOX

City

State

Zip

Greeted as (nickname, middle name, etc.)

Citizenship

USA¹

Description of Invention: Please preserve all records of the invention and attach additional pages for following. Each additional page should be signed and dated by the inventor(s) and witness(es).

A. Prior solutions and their disadvantages (if available, attach copies of product literature, technical articles, patents, etc.).

Prior solutions including PNDO 10005058 and USPTO 6074031 describe a discrete print mechanism and ink supply integrated in or with a CDRW or DVDRW drive that can print labels on the recording media. These approaches add cost, bulk, and maintenance (replacing consumables) to a basic drive.

B. Problems solved by the invention.

The invention eliminates the need for an ink supply and other additional parts by using the existing laser writing device to write to a thermally sensitive label or coating on the recording media.

C. Advantages of the invention over what has been done before:

To date, labels have been printed on a printer or by hand and then attached to a writable disk. With the inventions specified in section A, the writing can be done within the disk writer directly on the disk, but require additional moving hardware components and a replaceable ink supply. This invention can implemented at minimal incremental cost, will not increase the form factor of the device, and will not require the replacement of consumables.

D. Description of the construction and operation of the invention (include appropriate schematic, block, & timing diagrams, drawings, samples, graphs, flowcharts, computer listings, test results, etc.)

The invention uses the writing laser diode in an optical disk writer to heat a thermal sensitive coating on a disk or the coating on an attached label on the label side of a writable optical disk (CDRW, DVDRW, et al). The thermal sensitive coating can be similar to thermal FAX paper in that it changes from white to black when heated. In operation, the disk would be removed, turned over, and re-inserted. The disk rotation and laser servo subsystems would be used to position the laser to write very high-resolution markings on the label side of the disk. Color printing could be achieved by making the thermal coatings multi-layer or color patterned (under a white top surface). In the multi-layer approach, the laser could be modulated to burn through the appropriate number of layers to reach the intended color. In a color patterned coating, pre-printed alignment marks could be read by the drive to align the laser, then the printing laser would be directed to burn through the top layer to expose one or more color sub-pixels. An additional claim is that the disk could be ejected with the label always be properly aligned (top to bottom) for easy reading.

TIMMONS, DEE (HP-PaloAlto,ex1)

From: LEGAL,IP (HP-PaloAlto,exgen1)
Sent: [REDACTED]
To: BRONSON,BARRY (HP-PaloAlto,unix3)
Subject: Invention Disclosure 10008364

Thank you for submitting an Invention Disclosure Form dated [REDACTED], entitled: CD Writer Thermal Printing Labels. We have placed this disclosure in our active disclosure list with a status of NEW and will review it at our next patent coordinator meeting.

Your disclosure has been assigned a Patent Docket Number of 10008364. You may call the legal department at any time to check on the status of your disclosure using this PD Number.

Again, on behalf of HP, we want to thank you for submitting your invention disclosure. Please bear in mind that you should treat all information about this invention as confidential. Please contact me immediately if you need to disclose this invention outside of Hewlett-Packard Company. Failure to do so may cause forfeiture of HP's patent rights.

Sincerely,

James Maccoun
Legal Department
Intellectual Property Section